

Claims

What is claimed is:

1. An anode for electrowinning zinc comprising a rolled lead-silver alloy containing greater than 0% of a member selected from the group consisting of calcium, barium and strontium, containing 0% tin and having a randomly oriented grain structure.
2. The anode of claim 1 in which the alloy is a lead-calcium-silver alloy.
3. The anode of claim 2 in which the calcium content is below 0.08%.
4. The anode of claim 2 in which the calcium content is between 0.03 and 0.08%.
5. The anode of claim 2 in which the silver content is at least 0.3%.
6. The anode of claim 2 in which the silver content is between 0.3 and 0.5%.
7. The anode of claim 2 in which the calcium content is between 0.04 and 0.07% and the silver content is between 0.3 and 0.4%.
8. The anode of claim 2 in which the calcium content is about 0.06% and the silver content is about 0.35%.
9. The anode of claim 1 in which the rolled alloy is attached to a copper busbar.
10. The anode of claim 1 in which the alloy contains barium.
11. The anode of claim 1 in which the alloy contains strontium.
12. A lead-silver alloy for electrowinning zinc containing greater than 0% of a member selected from the group consisting of calcium, barium and strontium, containing 0% tin and having a randomly oriented grain structure which is not corrosion resistant.
13. An anode for electrowinning zinc formed by rolling a lead-silver alloy containing greater than 0% of a member selected from the group consisting of calcium, barium and strontium and 0% tin, and heat treating the alloy at a temperature sufficiently high to cause

recrystallization of the alloy and to reduce precipitation from solution of any calcium, barium or strontium present in the alloy.

14. The anode of claim 13 which is formed by rolling the alloy at a temperature above 100°C.

15. The anode of claim 13 which is formed by rolling the alloy at a temperature above 150°C.

16. The anode of claim 13 which is formed by rolling the alloy at a temperature below 150°C and heat treated above 150°C, whereby a fine grained recrystallized structure is formed.

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